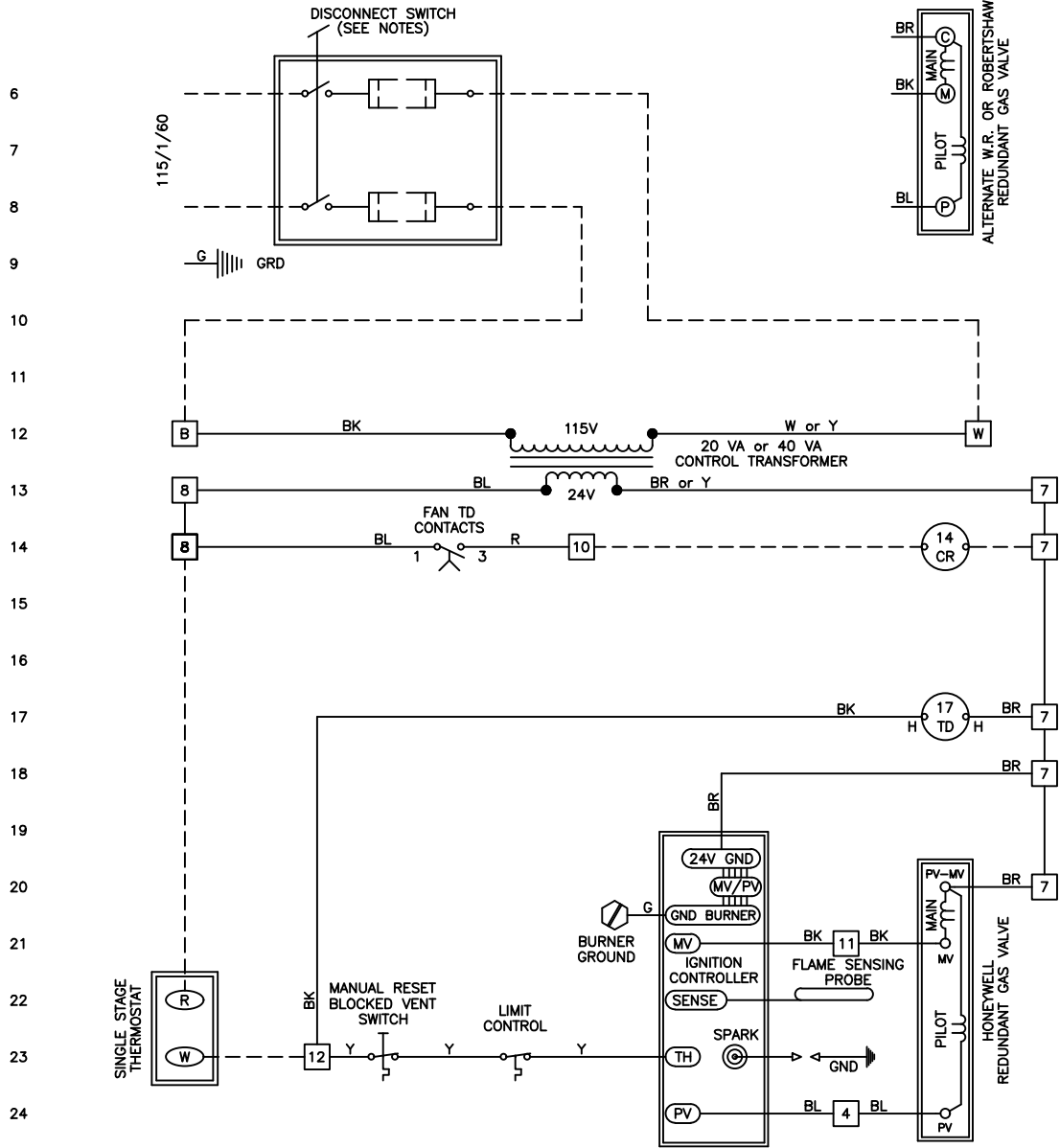


# MODEL X



- OPERATING SEQUENCE**
- SET THERMOSTAT AT LOWEST SETTING.
  - TURN ON POWER, MAIN AND PILOT MANUAL GAS VALVES.
  - SET THERMOSTAT AT DESIRED TEMPERATURE.
  - THERMOSTAT CALLS FOR HEAT.
  - BLOWER MOTOR OPERATES FROM FAN TIME DELAY.
  - THE PILOT GAS VALVE AND SPARK GAP ARE ENERGIZED TO PRODUCE A PILOT FLAME ON EACH OPERATING CYCLE. THE SENSING PROBE PROVES THE PRESENCE OF THE PILOT FLAME AND ENERGIZES THE SAFETY SWITCH PORTION OF THE CONTROL. THE SWITCH ACTION DE-ENERGIZES THE SPARK GAP AND ENERGIZES THE MAIN VALVE. THE MAIN GAS IGNITES AND UNIT FIRES AT FULL RATE.
  - IF THE FLAME IS EXTINGUISHED DURING MAIN BURNER OPERATION, THE SAFETY SWITCH CLOSES THE MAIN VALVE. IF THE PILOT IS NOT ESTABLISHED WITHIN 120 SEC. THE UNIT LOCKS OUT FOR ONE HOUR, UNLESS IT IS RESET BY INTERRUPTING POWER TO THE CONTROL CIRCUIT. (SEE LIGHTING INSTRUCTIONS)
  - THE SENSING PROBE PROVES THE PRESENCE OF THE PILOT FLAME.
    - DE-ENERGIZING THE IGNITOR.
    - ENERGIZING THE GAS VALVE.
  - SET THERMOSTAT AT LOWEST SETTING FOR SHUTDOWN.
    - BLOWER MOTOR REMAINS ON AS DETERMINED BY FAN TIME DELAY.

- NOTE**
- THE FOLLOWING CONTROLS ARE SUPPLIED BY REZNOR FOR FIELD INSTALLATION: NONE
  - THE FOLLOWING CONTROLS ARE SUPPLIED AS OPTIONAL EQUIPMENT: THERMOSTAT
  - DOTTED WIRING AND THE FOLLOWING CONTROLS ARE SUPPLIED AND INSTALLED BY OTHERS: BLOWER RELAY
  - CAUTION: IF ANY OF THE ORIGINAL WIRE AS SUPPLIED WITH THE APPLIANCE MUST BE REPLACED, IT MUST BE REPLACED WITH WIRING MATERIAL HAVING A TEMPERATURE RATING OF AT LEAST 105 DEGREES C., EXCEPT FOR BLOCKED VENT SWITCH OR SENSOR LEAD WIRE WHICH MUST BE 150 DEGREES C.
  - LINE AND BLOWER MOTOR BRANCH CIRCUIT WIRE SIZES SHOULD BE OF A SIZE TO PREVENT VOLTAGE DROP BEYOND FIVE PERCENT OF SUPPLY LINE VOLTAGE.
  - USE #14 GA. WIRE FOR LINE WIRING ON UNIT.
  - USE #18 GA. FOR 24 VOLT CONTROL WIRING ON UNIT.
  - WHEN PROVIDING OR REPLACING FUSES IN THE FUSIBLE DISCONNECT SWITCH USE DUAL ELEMENTS TIME DELAY FUSES AND SIZE ACCORDING TO 1.25 TIMES THE MAXIMUM TOTAL INPUT AMPS.
  - DISCONNECT SWITCH IS FIELD FURNISHED OR AVAILABLE FROM FACTORY AS AN OPTION.

CUSTOMER'S 24 VOLT BLOWER MOTOR RELAY COIL 8VA MAX.

FAN TD HEATER 14

MAIN

PILOT

WIRING CODE	FIELD CONTROL WIRING	
	TOTAL WIRE LENGTH	MINIMUM RECOMMENDED WIRE SIZE
BLACK - BK	150 FEET	#18 GA.
BROWN - BR	250 FEET	#16 GA.
RED - R	350 FEET	#14 GA.
ORANGE - O		
YELLOW - Y		
GREEN - G		
BLUE - BL		
PURPLE - PR		
WHITE - W		

4, 7, 8, 10, 11, 12, B, W  TERMINAL BLOCK -- HEATER COMPARTMENT